



## CS 542 Design Pattern and Object-Oriented Analysis

### Lab 1

Student 1		Student 2	
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### Grading Rubrics (for instructor only):

Criteria	1. Beginning	2. Developing	3. Proficient	4. Exemplary
Completeness: model covers all concepts provided	0-15	15-19	20-22	23-25
Completeness: each class has at least one attribute and one operation	0-15	15-19	20-22	23-25
Correctness: relation	0-15	15-19	20-22	23-25
Correctness: multiplicity	0-15	15-19	20-22	23-25
Total Grade (100)				

**REVIEWED**

*By Simon at 3:40 pm, Sep 06, 2019*



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### **Problems:**

In the college domain, we have the following concepts:

- Student
- Course
- Faculty
- Course section
- Administrative assistant
- Technician
- Classroom
- Meeting room
- Building
- Gymnasium
- Laboratory

You are asked to design a model, using a UML class diagram to relate the abovementioned concepts:

- a) Correctly use UML notations for relations such as generalization, association, aggregation, composition.
- b) You may consider to introduce additional concepts into the picture to make your model more appropriate.
- c) For each Class in your diagram, you should define at least one attribute and one operation.
- d) Use multiplicity whenever appropriate.

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